PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PALGE04259	FOR FURTHER ACTION as	see Form PCT/ISA/220 well as, where applicable, item 5 below.
International application No. PCT/KR 2004/002225	(Earliest) Priority Date (day/month/year) 22 September 2003 (22.09.2003)	International filing date (day/month/year) 2 September 2004 (02.09.2004)
Applicant	LG ELECTRONICS INC.	1
This international search report has been according to Article 18. A copy is being to	prepared by this International Searching Authoransmitted to the International Bureau.	rity and is transmitted to the applicant
This international search report consists of It is also accompanied by a	of a total of sheets. copy of each prior art document cited in this re	enort `
	The state of the s	
	ternational search was carried out on the basis ess otherwise indicated under this item.	
b. With regard to any nucleotide	and/or amino acid sequence disclosed in the	international application, see
		continuation of this first sheet.
2. Certain claims were found	unsearchable (see continuation of this first sh	eet)
3. Unity of invention is lacking	g (see continuation of this first sheet)	
4. With regard to the title,	•	•
the text is approved as subm		
the text has been established	by this Authority to read as follows:	
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	•	
5. With regard to the abstract,		
the text is approved as submit	ted by the applicant	
the text has been established,	according to Rule 38.2(b), by this Authority as hin one month from the date of mailing of this	it appears in the continuation of this first international search report, submit
6. With regard to the drawings,		
	ished with the abstract is Figure No. 2	·
as suggested by the applicant.		_
	pecause the applicant failed to suggest a figure.	
as selected by this Authority, b	pecause this figure better characterizes the investigation	ntion
b. none of the figures is to be public	shed with the abstract.	

INTERN. JONAL SEARCH REPORT

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'AP9 Rec'd PCT/PTO 21 MAR 2006

International application No. PCT/KR 2004/002225

Continuation of first sheet

Continuation No. IV:

Text of the abstract

(Continuation of item 5 of the first sheet)

The present invention discloses an apparatus for fixing an inner stator (320) of a motor of a reciprocal compressor and a method therefor. The apparatus for fixing the inner stator (320) of the motor of the reciprocal compressor includes a front frame, a cylinder inserted into and coupled to the front frame, an outer stator supported by the front frame (210) in a contact state, an inner stator (320) formed in a cylindrical shape and inserted onto the outside circumferential surface of the cylinder (410) with a predetermined interval from an inside diameter of the outer stator (310), a mover (330) inserted between the outer stator (310) and the inner stator (320), and coupled to a piston (420) inserted into the cylinder (410), and a stator fixing means incorporated with the front frame (210) to pass through the cylinder (410) or the inner stator (320) in the longitudinal direction, for supporting and fixing both sides (213,215) of the inner stator. Here, the apparatus is fabricated by using casting. Therefore, the apparatus firmly fixes the inner stator (320) to other components, and simplifies the components and the whole process.

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷: F04B 35/04, H02K 1/12, H02K 15/02, F25B1/02, F16D 65/00. According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC⁷: F04B. H02K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPODOC, WPI, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category* Relevant to claim No. US 2003/0175135 A (HEO et al.) 18 September 2003 Α 1, 5, 10 (18.09.2003)abstract, figure 4. WO 2000/070223 A1 (BRASIL COMPRESSORES SA) Α 1, 5, 6, 10, 11 23 November 2000 (23.11.2000) abstract, figure 2. GB 2 042 813 A (JOHNSON ELECTRIC MANUFACTORY L) X 13, 14 24 September 1980 (24.09.1980) figure 2, claims 7 and 8.

Further documents are listed in the continuation of Box C.	See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not consider to be of particular relevance "E" earlier application or patent but published on or after the internation filing date "L" document which may throw doubts on priority claim(s) or which cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later the priority date claimed	"T" later document published after the international filing date of priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such		
Date of the actual completion of the international search 9 November 2004 (09.11.2004)	Date of mailing of the international search report 26 November 2004 (26.11.2004)		
Name and mailing address of the ISA/AT Austrian Patent Office Dresdner Straße 87, A-1200 Vienna	Authorized officer KUTZENBERGER T.		
Facsimile No. +43 / 1 / 534 24 / 535	Telephone No. +43 / 1 / 534 24 / 577		

INTERN. JONAL SEARCH REPORT

International application No. PCT/KR 2004/002225

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate of the relevant								
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.						
A	US 6,339,876 B1 (LEE) 22 January 2002 (22.01.2002) abstract, figure 2.	.12						
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ERNATION _ SEARCH REPORT Information on patent family members

Inte onal application No. PCT/KR 2004/002225

Patent document cited in search report			Publication date	Patent family member(s)		Publication date	
GB	A	2042813	1980-09-24			none	
US	A	20030175 135				none	
·US	В	6339876	2002-01-22	KR	A.	2000016887	2000-03-25
		•		US	В	6238192 ·	2001-05-29
				CN	A	1240883	2000-01-12
				JP	A	2000038985	2000-02-08
WO	A	20000702 23				none	